

REMARKS

Claims 3 and 10 have been canceled. Claims 1 and 8 have been amended. Claims 1-2, 4-9 and 11-14 are pending. Reconsideration and allowance of the present application based on the following remarks are respectfully requested.

Entry of this Amendment is respectfully requested since no new issues are raised by the Amendment and the Amendment places the Application in condition for allowance or at least in better form for appeal.

Claim Rejections Under 35 U.S.C. § 102

Claims 1-14 were rejected under 35 U.S.C. § 102(e) over Karna (U.S. Publication No. 2002/0196841). Applicants respectfully traverse these rejections.

Claim 1 recites, in part, a method for parallel type interference cancellation in a CDMA receiver that includes completing temporary detecting and recovering the symbol of the user when an over-sampled position of a received signal reaches the end of a symbol of a user.

As previously discussed, Karna discloses using a set of N samples that includes a plurality of M sample blocks. Karna specifically discloses that if a sample set of 150 is selected that at least 2 full symbols (M=50) will be included and that if the boundaries are not aligned, the end of the sample set (i.e., the partial sample) cannot be fully correlated. See, for example, page 4, paragraph [0035]. Karna does not teach completing temporary detecting when the received signal reaches the end of a symbol. Instead, Karna teaches that a fixed length symbol is selected from memory without a concern for the timing aspect recited in claim 1.

In the Response to Arguments, page 2 of the Office Action, the Examiner alleges that that step 206 in Karna is interpreted as completing a temporary detecting and recovering of the symbol of the user after the end of the symbol is received because at least one symbol is included in a sample set. Applicant does not agree with the Examiner. Karna specifically discloses that the end of the symbol and the end of the sample set do not correspond.

In addition, in claim 1, temporary detecting and recovering of the symbol of the user is completed when an over-sampled position of a received signal reaches the end of a symbol of a user. Therefore, claim 1 includes an element of time that require the completion of the detecting and recovering when the end of the symbol is reached (not after the end of the symbol is reached and/or when the end of the arbitrarily selected sample set is reached). Furthermore, this also means that the end of the symbol and end of the portion of the received signal

necessarily correspond. Karna is silent about these requirements. As would be readily understood by a person of ordinary skill in the art, alignment of these parameters is different than arbitrary selection as disclosed in Karna.

Accordingly, Karna fails to teach, or even suggest, a method for parallel type interference cancellation in a CDMA receiver that includes completing temporary detecting and recovering the symbol of the user when an over-sampled position of a received signal reaches the end of a symbol of a user

Claim 8 is believed allowable for at least the same reasons presented above with respect to claim 1 since claim 8 recites features that are similar to the features of claim 1 discussed above. Claims 2-7 and 9-14 are believed allowable for at least the reasons presented above with respect to claims 1 and 8 by virtue of their dependence upon claims 1 and 8. Accordingly, Applicants respectfully request reconsideration and withdrawal of these rejections.


Conclusion

Therefore, all objections and rejections having been addressed, it is respectfully submitted that the present application is in a condition for allowance and a Notice to that effect is earnestly solicited.

Should any issues remain unresolved, the Examiner is encouraged to contact the undersigned attorney for Applicants at the telephone number indicated below in order to expeditiously resolve any remaining issues.

Respectfully submitted,

MAYER BROWN ROWE & MAW LLP

By: 
Yoon S. Ham
Registration No. 45,307
Direct No. (202) 263-3280

YSH/VVK

Intellectual Property Group
1909 K Street, N.W.
Washington, D.C. 20006-1101
(202) 263-3000 Telephone
(202) 263-3300 Facsimile

Date: April 10, 2006